Fujitsu recommends Windows 8 Pro.

Data Sheet
Fujitsu ESPRIMO Q510 Desktop PC

The Mini with More PC per cm³

A real eye-catcher on your desk and anywhere else. The extremely small and elegant Fujitsu ESPRIMO Q510. The mini PC combines the performance of a fully equipped Desktop PC, low energy consumption, ENERGY STAR® certification, hardly any noise, a large number of practical connections, such as HDMI and USB 2.0 - all on a very small footprint with a volume of only 1.9 liters

An elegant mini PC for challenging office tasks
Eye-catcher on every desk with a modern and exclusive design
- Fully equipped PC with a volume of only 1.9 liters - based on standard desktop technology

Black shell and a green core
Needs only 9.2 watts in idle-mode and saves valuable resources
- Sophisticated technology, low energy-consuming processors and an up 90 % effective onboard power supply

Made in Germany
Outstanding quality and stable functions based on German production standards
- The development, production and function tests - all under one roof in Germany

Superb usability
Pleasant working environment due to a tidy desk
- Horizontal or vertical operations and an integrated VESA mount, service door for easy upgrade of major components

Advanced technology
Get your office job done fast and reliable
- 3rd generation Intel® Core™ processor family

reddot design award winner 2012 · ENERGY STAR · epeat GOLD · NORDIC ECOLABEL

Green IT · Quiet Running · Zero Noise PC · Backpack Solution · USB 2.0 · Multi Monitoring · Easy Access Cabinet · Keyboard Power On

Fujitsu recommends Windows 8 Pro.

Components

Processor	Intel® Core™ i5-3470T processor (2 Cores / 4 Threads, 2.90 GHz, up to 3.6 GHz, 3 MB, Intel® HD Graphics 2500) *
	Intel® Core™ i3-3220T processor (2 Cores / 4 Threads, 2.80 GHz, 3 MB, Intel® HD Graphics 2500)
	Intel® Pentium® processor G2020T (2 Cores / 2 Threads, 2.50 GHz, 3 MB, Intel® HD Graphics)
	Intel® Celeron® processor G1610T (2 Cores / 2 Threads, 2.30 GHz, 2 MB, Intel® HD Graphics)
	*with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other variables)
Operating systems	
Operating system	Windows 8 Pro Windows 8 Windows® 7 Professional 64-bit Windows® 7 Professional 32-bit Windows® 7 Home Premium 64-bit Windows® 7 Home Basic (EM) 32-bit
Operating system compatible	Windows® XP
Operating system notes	Limited Windows® XP support. Microsoft discontinued Windows® XP certification on system level, basic drivers via http://support.ts.fujitsu.com
Memory modules	2 GB (1 module(s) 2 GB) DDR3, non-ECC, 1600 MHz, PC3-12800, SO DIMM
	4 GB (1 module(s) 4 GB) DDR3, non-ECC, 1600 MHz, PC3-12800, SO DIMM
	8 GB (1 module(s) 8 GB) DDR3, non-ECC, 1600 MHz, PC3-12800, SO DIMM
Hard disk drives (internal)	SSD SATA III, 256 GB, 2.5-inch
	SSD SATA III, 128 GB, 2.5-inch, SED
	SSD SATA III, 128 GB, 2.5-inch
	HDD SATA II, 7200 rpm, 320 GB, 2.5-inch
	HDD SATA II, 5400 rpm, 1000 GB, 2.5-inch*
	HDD SATA II, 5400 rpm, 750 GB, 2.5-inch*
	HDD SATA II, 5400 rpm, 500 GB, 2.5-inch*
	HDD SATA II, 5400 rpm, 320 GB, 2.5-inch*
Hard disk notes	*Disk imaging software of the customer must be 4k sector size / advanced format ready Up to 20 GB of HDD space is reserved for system recovery SSHD (Solid State Hard Disk, Hybrid drive) SSD (Solid State Disk) SED (Self-Encrypting Drive)
Drives (optional)	BD Triple Writer SATA Slot-in slim
	DVD Super Multi Slot-in slim
Interface add on cards/components (optional)	
	WLAN 802.11 b/g/n (2x2) and Bluetooth (dedicated regions only)
Base unit	ESPRIMO Q510
Mainboard	
Mainboard type	D3173
Formfactor	proprietary
Chipset	Intel® H61
Processor socket	LGA 1155
Processor quantity maximum	1
Memory slots	2 SO DIMM (DDR3, 1333 MHz)
Supported capacity RAM (max.)	16 GB
Memory frequency	1333 MHz

Mainboard	
Memory notes	Dual channel support. For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same
LAN	10/100/1000 MBit/s Intel® 82579 V
Integrated WLAN	1 (optional)
BIOS version	AMI Aptio 4.6
BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)
Audio codec	Conexant CX20642
Audio features	High Definition audio, 5.1 surround sound, Buzzer
I/O controller on board	
Serial ATA total	2
Controller functions	Serial ATA II (3 Gbit) NCQ AHCI
Interfaces	
Audio: line-out / headphone	1
Audio: line-in / microphone	1
USB 2.0 total	6
USB front	2x 2.0
USB rear	4x 2.0
VGA	1 (via DVI to VGA adapter, part of shipment)
DVI	1 (DVI-I)
HDMI	1
Ethernet (RJ-45)	1
Kensington Lock support	1
Multicardreader	1
Interface Module notes	Anytime USB charge functionality
Input device / components	
	Optical USB wheel mouse
Input devices (optional)	KBPC PX ECO Mouse M440 ECO
Drive bays	
Drive bays total	2
2.5-inch internal bays	1
5.25-inch external bays	1
Drive bay notes	slim slot-in
Graphics on board	
Graphics brand name	Intel® HD Graphics, HD Graphics 2000, HD Graphics 2500 (depending on processor)
Shared video memory	up to 1759 MB
TFT resolution (VGA)	1024 x 768 pixel 1280 x 1024 pixel 1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1600 x 1200 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel
TFT resolution (DVI)	1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel

Graphics on board	
TFT resolution (HDMI)	1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel 2560 x 1440 pixel 2560 x 1600 pixel
Graphics features	Dual display support DirectX® 10.1 or DirectX® 11 (depending on CPU) HDCP support Open GL® 3.3 (depending on CPU) Open CL® 1.1 (depending on CPU)
Graphics notes	Tested resolutions, depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size and operating system Resolution (color depth up to 32 Bit/pixel) For TFT we recommend using 60Hz
Electrical values	
Power efficiency note	power supply efficiency (at 115V/230V; 10% / 20% / 50% / 100% load) : 86% / 87% / 90% / 90%
Rated voltage range	100 V - 240 V
Rated frequency range	50 Hz - 60 Hz
Operating voltage range	90 V - 264 V
Operating line frequency range	47 Hz - 63 Hz
Max. output of single power supply	65 W (integrated in system)
Power factor correction/active power	No (meets input harmonic current according EN61000-3-2)
Monitor outlet	No
Power consumption	
Power consumption note	See white paper Energy Consumption
Link to Energy White Paper	http://docs.ts.fujitsu.com/dl.aspx?id=a95609a6-cda7-45f8-a45d-97b0976f4ed2
Heat dissipation	
Heat dissipation notes	See white paper Energy Consumption
Noise emission	
Related Processors for noise	Intel® Core i3-2120T
Standard noise emission	2x2 GB, HDD, ODD, Windows According to ISO 7779:2010, ECMA-74
Standard noise notes / description	A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A))
Standard noise operation mode: HDD load	3.3 B / 19 dB(A)
Standard noise operation mode: Idle mode	3.3 B / 19 dB(A)
Standard noise operation mode: ODD load	4.7 B / 33 dB(A)
Standard noise operation mode: Office applications 2.0	3.2 B / 18 dB(A)
Blue angel noise emission according certification	According to ISO 7779:2010, ECMA-74 for max. possible configuration
Blue angel noise notes / description	A-weighted sound power level Lwad (in B); 1B = 10dB
Blue angel noise operation mode: HDD load	3.3 B = 33 dB
Blue angel noise operation mode: Idle mode	3.2 B = 32 dB
Blue angel noise operation mode: ODD load	4.7 B = 47 dB
Dimensions / Weight / Environmental	
Dimensions (W x D x H)	185 x 188 x 54 mm 7.29 x 7.41 x 2.13 inch

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Dimensions / Weight / Environmental	
Operating position	Vertical / horizontal (no feet needed)
VESA mount	integrated (100mm), applicable for selected monitors only, additional mounting kit for specific monitors optional
Weight	1.6 kg
Weight (lbs)	3.53 lbs
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	10 - 35 °C (50 - 95 °F)

Compliance	
Product	ESPRIMO Q510
Model	MPC2
Germany	TÜV GS Blauer Engel / Blue Angel
Europe	CE Nordic Swan
USA/Canada	FCC Class B cCSAus
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) ENERGY STAR® 5.0 (dedicated regions) EPEAT® Gold (dedicated regions)
Compliance link	http://globalsp.ts.fujitsu.com/sites/certificates

Additional Software	
Additional software (preinstalled)	Adobe® Reader® Anti Virus software (60 days trial version) Win7: Fujitsu Recovery (Hard Disk Based Recovery) Win8: Microsoft Push Button Recovery (Hard Disk Based Recovery) Microsoft Office - buy license to activate the pre-installed Microsoft Office
Additional software (optional)	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) CyberLink PowerDVD (BD/DVD playback software for Blu-ray Disc™) CyberLink PowerDVD (DVD playback software) Nero Essentials XL

Compatibility (references)	
	DMI 2.0 PC 2001 WMI 1.5 USB 2.0 SMBIOS

Manageability	
Manageability technology	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) WoL (Wake on LAN)

Security	
Physical Security	Kensington Lock support Housing Lock Plate (to use with Kensington lock)
System and BIOS Security	Boot sector virus protection Write protect option for the Flash EPROM Control of external interfaces External USB ports can be disabled separately
User Security	User and supervisor BIOS password Hard disk password Access protection via external SmartCard reader (optional)

Packaging information	
Packaging dimension (mm)	395 x 198 x 284 mm
Packaging dimension (inch)	15.55 x 7.8 x 11.18 inch
Max. quantity / pallet	48
Material - Weight (g) Carton	670 g
Material - Weight (lbs) Carton	1.48 lbs
Material - Weight (g) EPS / PS	10 g
Material - Weight (lbs) EPS / PS	0.02 lbs
Material - Weight (g) PE	125 g
Material - Weight (lbs) PE	0.28 lbs
Packaging notes	If keyboard is inlcuded in packaging: 1.)packaging dimension is increasing to: 500 x 208 x 290mm / (19.69 x 8.19 x 11.42 inch); 2.) material weight of carton will increase to 880g; 3.) max. quantity/pallet = 49; printed user documentation is bleached in chlorin free process;

Warranty	
Standard Warranty	1 year
Service level	Bring-In / Onsite Service (for countries within region FTS CEMEA&I, for all other countries depending on local regulations, minimum: 1 year material warranty)
Warranty Terms & Conditions	http://support.ts.fujitsu.com/warranty

Maintenance and Support Services - the perfect extension	
Recommended Service	9x5, Response Time: Next Business Day
Spare Parts availability	5 years after end of product life
Service Weblink	http://www.fujitsu.com/fts/services/support

PC World

PC Benchmark Test (ESPRIMO Q510) Spain 09/2012

Recommended Accessories

USB-Port Replicator PR07

This Port Replicator is the perfect docking solution for notebooks without a docking connector. Turn your notebook into a desktop complete with two screens for a real productivity boost thanks to the DualView feature. Plus connect to the local area network and to all of your peripherals with a single USB plug.

Order Code: S26391-F6007-L300

Display B22W-6 LED proGREEN

The B22W-6 LED proGREEN offers best ergonomics and usability for intensive office use with a 4-in-1 stand.

Order Code: S26361-K1392-V160

Display B24W-6 LED

The Fujitsu Display B24W-6 LED combines the best ergonomic and energy saving solutions for intensive office use. The flexible stand with height adjust assures an individual and healthy posture for long-time working sessions. With its impressive screen size it allows working on different documents in parallel or standard CAD applications.

Order Code: S26361-K1427-V140

CELVIN® Drive M200		The CELVIN Drive M200 is an ultra-portable and high-class storage device. Since it is compatible with USB3.0 and USB 2.0, it can be used with a large variety of devices. It is ideal for notebook and desktop users. It makes data backup easier and faster than ever.	Order Code: S26341-F103-L500
SOUNDSYSTEM DS E2000 Air		The new more powerful SOUNDSYSTEM DS E2000 Air gives you impressive, well-balanced sound throughout the frequency band. It is an unbeatable USB speaker set with a surprisingly small form factor. The robust satellite speakers are decorated with a deluxe piano finish and the base is adorned with warm ambient lighting.	Order Code: S26391-F7128-L600
Wireless Keyboard Set LX900		The Wireless Keyboard LX900 is a top of the line desktop solution for lifestyle orientated customers, who want only the best for their desk. This superb keyboard set with offers ambitious users more functions, security and better features than a conventional interface device. It even includes 2.4 GHz technology and 128 AES encryption for security.	S26381-K564-L4** (**: Country specific variation)

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More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu ESPRIMO Q510, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio
Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products
www.fujitsu.com/global/services/computing/

Software
www.fujitsu.com/software/

More information

Learn more about Fujitsu ESPRIMO Q510, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/fts/ESPRIMO

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at http://www.fujitsu.com/global/about/environment/

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